

New books published

Two new publications of interest to AOCS members have been announced by the National Bureau of Standards.

In *Electronic Absorption and Internal and External Vibrational Data of Atomic and Molecular Ions Doped in Alkali Halide Crystals*, spectral data for more than 70 atomic and molecular ions doped in alkali halide crystals are tabulated. The tables include electronic absorption data, listings of internal vibrational frequencies of doped complex ions, and tabulations of the frequencies of external modes. The data that appear in the tables were selected on the basis of the consistency among different authors, the types of instruments, and the temperature of measurement. In addition to the data, the tables include the spectroscopic assignments given by the authors in the references cited. The authors are: S.C. Jain, A.V.R. Warrier, and S.K. Agarwal.

Also of interest to members is the newly published *Tables of Collision Integrals and Second Virial Coefficients for the (m, 6,8) Intermolecular Potential Function* by Max Klein, H.J.M. Hanley, Francis J. Smith, and Paul Holland. Tables of collision integrals and second virial coefficients are presented for the (m, 6,8) potential function. Ten values of the repulsive exponent m are included which range in unit steps from m = 9 to m = 18. Ca. six values of the parameter, γ , associated with the inverse eighth power term, are included for each value of m. These tables are equivalent, therefore, to tables for 60 three-parameter (m,6) potential functions. Comparisons of results for m = 12 and $\gamma = 0$ (corresponding to the [12,6] function) have been made with other calculations. Based upon these comparisons, the accuracy of the present calculation appears to be at least 2 or 3 parts in 10,000, depending upon the temperature. A table is included which contains the Boyle temperature, the Boyle volume, and the ratio of the intermolecular separation at the potential minimum to the separation at the zero of the potential.

The books are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. ■

Group formed to handle legal-scientific issues

The American Association for the Advancement of Science and the American Bar Association have formed a national conference group to foster communications and interaction between scientists and lawyers.

The new group will be an ongoing activity of the two associations, meeting several times each year to discuss and work on a number of issues related to both law and science. Each association will have seven representatives on the joint group.

After its initial organizational meeting in Washington, D.C., representatives announced that the purposes of the joint group would be to: (A) establish communications between the two professions; (B) provide a forum for resolution of complex problems of interest to both professions; (C) jointly sponsor symposiums, programs, and studies; (D) encourage cooperation in the wide range of problems that need the attention and expertise of scientists and lawyers; (E) improve the process for the use of science and technology in the legislative and judicial fields; and (F) if necessary, adopt an appropriate code of principles and standards for the two professions. ■

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